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SMELTING OF COPPER ORES AND CONCENTRATES
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AT HITACHI MINES. [1961] [58]p.
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61-10739

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DESCRIPTORS: *Copper ores, Processing, Oxygen,
Metallurgy, Ores.

The oxygen-enriched air smelting of copper in a con-
verter has reduced smelting costs, improved the yield
of gold, silver and copper, and made for effective
utilization of iron and sulphur from the Copper ore.

(Metallurgy, TT, v. 6, no. 1)

61-10739

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Office of Technical Services

Tsurmoto, Tamon.
INVESTIGATION OF COPPER SMELTING USING
OXYGEN-ENRICHED AIR. [1961] [22]p.
Order from SLA \$2.60 61-10738

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DESCRIPTORS: *Copper, *Ores, Processing,
*Smelting, Oxygen.

An industrially feasible process for smelting copper
ores using oxygen-enriched air and a Pierce-Smith type
converter is described. A summary is given of tests
carried out at the Sagamosaki smelting works in Japan
during the years 1952 to 1954.

(Metallurgy, TT, v. 6, no. 3)

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ATS-37M39J

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DESCRIPTORS: *Polymers, Copolymerization,
*Vinyl radicals, *Cyano radicals, *Ethyl ethers,
Synthesis, Mechanical properties, Vinyl alcohol,
Alcohols.

(Chemistry--Organic, TT, v. 8, no. 7)

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(Chemistry--Organic, IT, v. 8, no. 3)

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Some Vinyl Polymers, Crude Rubber and Rubber
Hydrochloride, by S. Tsuruta, et al.

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Vol I.IV, 1951, pp 524, 525.

ATS JJ-2052

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ATS JJ-2053

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Order from SLA mi\$1.80, ph\$1.80 61-10604

Trans. of Nihon Kagaku Zasshi (Japan) 1951, v. 72, no. 1, p. 101-104

DESCRIPTORS: *Aniline-formaldehyde resins, Chemical analysis, Condensation reactions, Polymerization

Aniline-formaldehyde resins were synthesized and analyses were made of their carbon, hydrogen, and nitrogen composition. A curve of the composition line of percent aldehyde (CH_2O) versus the aniline/formaldehyde ratio showed the mechanism of resin formation to be based on addition-condensation reactions as depicted by $\text{C}_6\text{H}_5\text{NH}_2 + \text{CH}_2\text{O} \rightarrow \text{C}_6\text{H}_5\text{NHCH}_2\text{OH}$ and $\text{C}_6\text{H}_5\text{NHCH}_2\text{OH} + x\text{C}_6\text{H}_5\text{NHCH}_2\text{OH} \rightarrow \text{C}_6\text{H}_5\text{NH}_2$ (Materials--Plastics, TT, v. 6, no. 4) (over)

61-10604

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- II. Title: Studies...
- III. Title: Annual...

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Order from SLA mi\$1.80, ph\$1.80 61-10606

Trans. of Nihon Kagaku Zasshi (Japan) 1951, v. 72, no. 1, p. 104-107.

DESCRIPTORS: *Aniline-formaldehyde resins, Molecular structure, Polymerization, Condensation reactions.

The oxygen component of aniline-formaldehyde resins was calculated. Resins formed with an excess of formaldehyde showed greater oxygen content and indicated the formation of a methylol compound according to the reactions (1) $C_6H_5NH_2 + CH_2O \longrightarrow C_6H_5NHCH_2OH$; and (2) $C_6H_5NHCH_2OH + xC_6H_5NHCH_2OH \rightarrow C_6H_5NH$
(Materials--Plastics, TT, v. 6, no. 4) (over)

61-10606

- I. Tsuruta, S.
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10p. 3refs. CNRS-VIII bis 298.
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